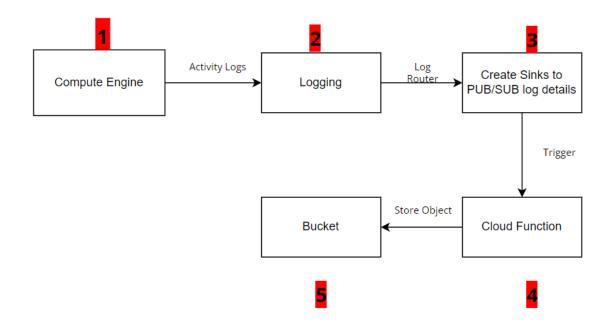
Whenever a vm is stopped the provided information should be stored in the bucket

- Configure the monitoring to get the logs for vm start/stop.
- Write a cloud function with your convenient programming language to capture data about vm start time, end time, ID and Name.
- Configure monitoring to trigger cloud functions based on monitoring.
- Cloud functions should send the data to bucket.

Below GCP services are used:

- 1. Google Compute Engine(GCE) For VM instance
- 2. Logging Log filters to fetch the start/stop details of VM
- 3. Sinks Sinks with PUB/SUB to trigger the cloud function
- 4. Cloud Function To fetch the details and store as object in Bucket
- 5. Bucket Object stored in bucket



Creating GCE instance



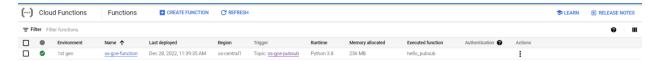
2. Logging the VM activity logs with necessary filter to fetch the start/stop VM details



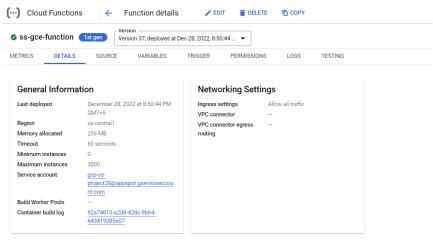
- 3. Using Log Router, route the log file to create Sink and configure the destination to PUB/SUB topic with above log filter
- 4. Before configuring, PUB/SUB topic needs to be created



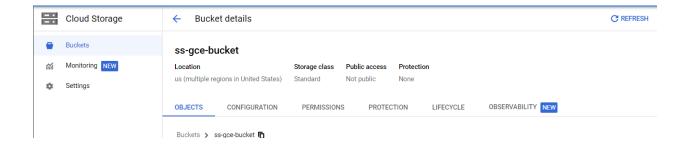
5. Trigger cloud function from PUB/SUB topic



6. Below cloud function and bucket has been created

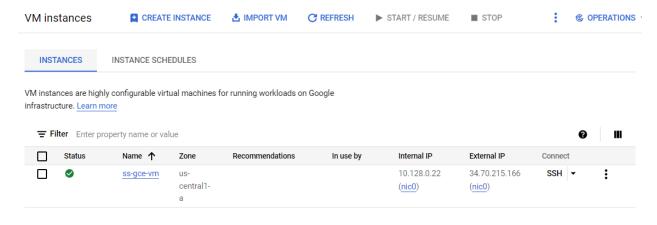


EQUIVALENT REST



Test Scenario 1: When VM is started

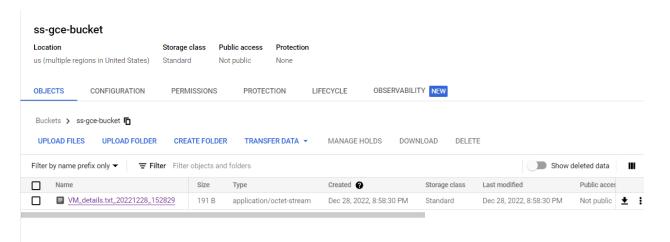
• VM instance started and triggered the cloud function



Cloud function log generated

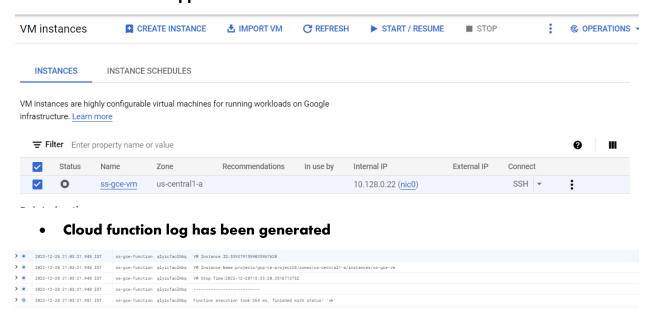


- Text file has been generated and available in the bucket
- Downloading and viewing it

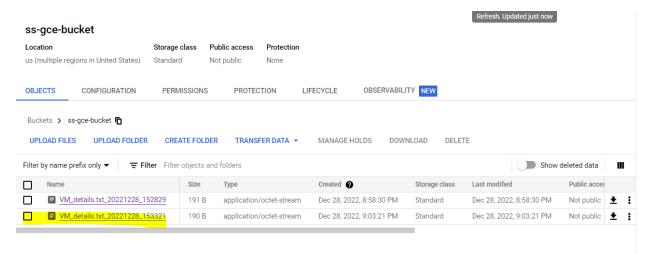


Test Scenario 2: When VM is stopped

VM has been stopped



Text file has been generated and available in the bucket



Downloading and viewing the file





Source code available in below repo:

 $\underline{https://github.com/satizzzzz/SquareShift_Assignment}$